



CITY OF FAIRFAX FIRE DEPARTMENT 2016 ANNUAL REPORT





*City of Fairfax
Fire Department*

Taking Pride in Excellence

*John O'Neal
Fire Chief*



Dear Mayor, City Council, and Citizens,

On behalf of the dedicated, trained, and professional career and volunteer members of the City of Fairfax Fire Department, it is a pleasure to present our 2016 Annual Report.

Thanks to the hard work and dedication of our career and volunteer members, 2016 was an exciting and successful year. To highlight some of the events and successes for 2016, I start with my appointment as fire chief starting January 25, 2016. It is truly an honor and privilege to serve the citizens of the city and lead this outstanding organization. Other notable events include our successful partnership with our volunteer department placing our new tower ladder truck into service the first part of the year, receiving and placing into service two new medic units, and the ordering of a replacement foam engine this past fall. The department also enjoyed success with the award of a federal SAFER grant to hire 3 additional fire-medics, the award of other federal grants for foam training, medic upgrade training, and leadership training.

During the course of 2016, we prepared for and welcomed in the Insurance Services Office, Inc. (ISO) to perform their evaluation of the city's fire suppression response capabilities and building code effectiveness survey. During the first quarter of 2016, the ISO completed their analysis of our adopted building codes and efforts to enforce the codes. The results of the analysis reduced our rating to a Building Code Effectiveness Grading Classification 3. In September, representatives from ISO evaluated our fire deployment strategies, apparatus and equipment, firefighter training program, 911 dispatch center, and water distribution system. We anticipate the results from this study in the first quarter of 2017. A positive rating by the ISO can influence property and casualty insurance rates.

Like many organizations, we experienced turn over in our department through retirements and personnel seeking their happiness in other pursuits. In 2016, we experienced three retirements of tenured personnel and six resignations. We had the pleasure of welcoming six new personnel to our departmental family and promoting six incumbent personnel, truly an exciting time for the organization.

This report highlights our other successes, work outputs, response statistics, and the sadness of loss of life and property. Our goals for 2017 are to remain vigilant, trained, and ready to respond to emergencies to reduce loss of life and property.

In closing, I would like to thank the citizens, our career and volunteer personnel, our city leadership team, and our Mayor and City Council for their continued support of our department.

Respectfully submitted,

John O'Neal

Fire Chief



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Emergency Operations

The department provides emergency services to the city and surrounding areas of the county from two strategically located fire stations to provide fire suppression services, emergency medical services, technical rescue response, and other hazard mitigation services. The department staffs the operations division with 60 personnel, operating on a three platoon system with a minimum of 20 personnel assigned on each shift. With scheduled and unscheduled leave, each shift operates with a minimum of 16 personnel. The department is supplemented with certified firefighters from our partners with the Fairfax Volunteer Fire Department, Inc.

Fire Station 3 – 4081 University Drive

Battalion Chief 443 (BC433)	Command Officer
Foam Engine 403 (FE403)	Specialty engine capable of delivering large quantities of foam
Tower Ladder 403 (TL403)	105' aerial platform ladder
Medic 403 (M403)	Advanced life support transport ambulance

Fire Station 33 – 10101 Fairfax Blvd

Rescue Engine 433 (RE433)	Specialty engine capable of performing technical rescue services
Medic 433 (M433)	Advanced life support transport ambulance

The department maintains numerous non-staffed units for specialty rescue and foam fire-fighting along with mechanical reserve apparatus.

The department participates in the National Fire Incident Reporting System (NFIRS) to track and analyze response trends in the community, risk probability, fire loss, system reliability, and service outputs. The following charts depict our service in the community by historical incident types, station call volume, and unit work load:

2014-2016 Call Type Analysis

NFIRS Incident Type	2016	2015	2014
Fire	195	201	203
Overpressure, Explosion, Overheat (No fire)	8	8	10
Rescue & Emergency Medical Services	4,328	4,285	4,457
Hazardous Condition (No fire)	217	225	207
Service Call	265	354	282
Good Intent Call	1,204	986	900
False Alarm & False Call	420	528	481
Severe Weather & Natural Disaster	3	1	4
Special Incident Type	7	6	7
Total	6,647	6,594	6,551



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2016 Call Type by Station

NFIRS Incident Type	Station 3	Station 33
Fire	124	70
Overpressure, Explosion, Overheat (No fire)	7	1
Rescue & Emergency Medical Services	2,740	1580
Hazardous Condition (No fire)	145	72
Service Call	174	91
Good Intent Call	685	518
False Alarm & False Call	314	106
Severe Weather & Natural Disaster	3	0
Special Incident Type	3	1
Total	4,195	2,439

*13 incidents did not list a station district

2016 Unit Response by Call Type

NFIRS Incident Type	FE 403	RE433	M403	M433	TL403	BC443
Fire	88	95	20	24	97	107
Overpressure, Explosion, Overheat	7	5	1	1	5	3
Rescue & EMS	1,595	980	1,877	1,476	460	217
Hazardous Condition (No fire)	99	104	19	22	80	82
Service Call	62	76	23	26	118	4
Good Intent Call	238	462	130	151	380	221
False Alarm & False Call	210	128	5	5	308	7
Severe Weather & Natural Disaster	1	1	0	0	2	1
Special Incident Type	2	1	0	0	1	0
Total	2,302	1,852	2,075	1,705	1,451	642

*FE403 includes E403 and TL403 includes T403 totals

Building Fire Loss and Saved

Occupancy Type	# of Fires	Est. Bldg Loss	Est. Bldg Value	Total Saved
1-2 Family dwelling	5	\$17,000	\$605,000	\$588,000
Business office	1	0	0	0
Elementary school	1	0	\$2,000,000	\$2,000,000
Mercantile, business, other	2	\$10,150	\$1,121,000	\$1,110,850
Multi-family dwelling	5	\$364,545	\$7,045,593	\$6,681,048
Restaurant or cafeteria	1	\$2,000	Not listed	0
Total	15	\$393,695	\$10,771,593	\$10,379,898



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Significant Building Fire Loss

- 10720 West Drive, Multi-family residential building, \$111,045 estimated fire loss
- 10171 Mosby Woods Drive, Multi-family residential building, \$250,000 estimated fire loss, 1-fatality

Emergency Medical Services

The delivery of quality emergency medical services accounts for approximately 65% of the department's overall emergency call volume. Our members logged over 1500 medical training hours to remain current on their skills and knowledge to provide the highest levels of acute patient care.

2016 EMS Patient Transports

Month	Transports	BLS	ALS 1	ALS2
January	240	43	189	8
February	214	44	167	3
March	219	40	175	4
April	222	45	168	8
May	250	50	194	6
June	240	39	193	8
July	203	22	179	2
August	216	49	154	13
September	227	35	186	6
October	232	41	189	2
November	207	42	163	2
December	228	50	171	7
Total	2698	500	2128	69

- *Basic life support (BLS):* Services shall be medical treatment or procedures to a patient as defined by the National Emergency Medicine Services (EMS) Education and Practice Blueprint for the Emergency Medical Technician-Basic (EMT).
- *Advanced life support, level 1 (ALS1):* Services shall be medical treatment or procedures provided to a patient beyond the scope of an EMT-Basic.
- *Advanced life support, level 2 (ALS2):* Services shall be defined as advanced life support services provided to a patient including one or more of the following medical procedures: (i) defibrillation/cardioversion; (ii) endotracheal intubation; (iii) cardiac pacing; (iv) chest decompression; (v) intraosseous line, and/or (vi) the administration of three or more medications.



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EMS Call Disposition Type

Disposition Type	Count
Call cancelled	115
Dead on scene	22
False Al/Unfounded/No Pt	276
No treatment, no transport	264
Transport and treatment	2698
Treatment, no transport	139

Chief Complaint-Call Type

Complaint	Total	Complaint	Total	Complaint	Total
Abd Pain	156	Diabetic	59	MVA	139
Allergies	43	Drowning	1	Overdose	139
Assault	33	Electrocution	1	Person Down	317
Back Pain	50	Eye Injury	2	Psych	107
Bite/Sting	2	Falls	287	Respiratory	211
Burns	14	GSW/Stab	1	Seizures	104
Cardiac	31	Headache	44	Stroke	43
Chest Pain	238	Heart Problems	9	Transfer	3
Childbirth	21	Heat/Cold	6	Trauma	126
Choking	3	Hemorrhage	71	Unconscious	315
CO Poison	12	Medical	71		





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Training Division

Our training division is charged with ensuring our personnel maintain a high level of skill readiness. The annual training program is designed to ensure skills are learned or maintained meeting applicable Nation Fire Protection Association (NFPA) standards, Insurance Services Office (ISO) training guidelines, Virginia Department of Fire Programs certification standards and Virginia Office of Emergency Medical Services certification requirements.

Operations Staff Training Hours

Shift	Company Training	Training Facility	Haz-Mat	Driver Training	Officer Training	Medical CEU	Other EMS	Off-Site Training
A	1,174	746.25	548.5	244	516.5	405.5	78	1076.5
B	1,139.5	919	499	179.75	153.5	334.5	174.5	1145.5
C	894.5	931.75	433	361.25	556	453.5	243.5	803.75
Total	3,208	2,597	1,480.5	785	1,226	1,193.5	496	3,025.75





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Significant Training by Month

January	February	March
Hosted Fire Officer I	Ice rescue refresher	Washington Gas training
Officer Development	Tower ladder in-service	Hosted Fire Officer II
	MWWA Aero train in-service	NOVA Command training
	Annual haz-mat refresher	New medic unit in-service
April	May	June
Pictometry & GIS training	Swift-water rescue MUD	Host Instructor I T-t-T
Spring foam drills	Photovoltaic training	Retirement & benefits trng
Rope multi-unit drills (MUD)	New hire training	Rescue Engine school
	Promotional process	Project Impact-mayday trng
July	August	September
ALS Intern school	GMU Active shooter seminar	NOVA Command training
Heavy vehicle extrication		Annual Sheriff/ADC drills
Hosted Mayday Operations		Fall foam drills
Hosted Mayday Technician		Acquired structure training
October	November	December
Burn building usage training	Live burn training	Firefighter safety & survival
Overhead high voltage trng	Diversion First trng/EMS Lts	Suspicious activity reporting
Washington Gas Pipetown		Ice rescue refresher
NVFR Leadership		





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Code Administration

Our code administration division promotes life and property safety through code compliance and public education. The division is led by an assistant chief for code administration who serves as the city's building official, fire marshal, and property maintenance code official. The division is divided into three sections; fire prevention, new construction, and property maintenance. Staffed with two assistant fire marshal's, the fire prevention section enforces the Statewide Fire Prevention Code, inspects fire protections systems, investigates fire origin and causes, conducts regular inspections of the bulk fuel complex, and provides public life safety education. Staffed with one plans examiner and four building inspectors, the new construction section reviews building plans, issues building permits, and conducts inspections of commercial and residential occupancies including new construction, remodeling, additions, and major repairs. Staffed with one property maintenance inspection, the property maintenance section ensures compliance with the adopted property maintenance code. The division is support by three permit technicians.



2016 Plan Review & Inspection Activity

Month	Plan Reviews	Permits Issued	Fuel Farm Inspect	Use Inspect	FPC Inspect	Property Maint Inspect	Child Care Inspect	Rental Inspect
January	90	137	32	8	48	76	1	10
February	86	183	32	32	55	115	3	6
March	76	203	32	17	68	123	3	4
April	86	160	32	9	33	180	4	11
May	96	146	32	12	57	259	2	8
June	76	182	32	15	46	236	2	9
July	82	115	32	6	50	200	4	3
August	82	156	32	7	44	229	3	6
September	71	164	32	7	47	214	3	4
October	86	196	32	4	49	103	5	3
November	75	127	32	8	46	42	3	2
December	80	334	32	10	33	85	2	9
Total	986	2103	384	135	576	1862	35	75

2016 Public Education and other Activity

Activity	Smoke Detector Installs	Child Seat Installs	Public Education Events	Number of Attendees
Totals	72	30	53	5585



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Other Community Outreach Events

- Partnering with the Fairfax Chapter of the American Red, operations staff, our volunteers, and CERT members installed over 200 smoke detectors during mass canvassing events held April 6, June 25, August 6, and October 22.
- Apparatus and honor guard participated in the Ride of the Patriots ceremony and parade, May 29
- 4th of July Parade, old fashioned Fireman's Day and fireworks celebration
- Partnering with our Police Department, our members participated in National Night Out events held on August 2 and Kids Safety Saturday on October 1
- Provided numerous fire station tours and the annual Fire Olympics for the Sunshine Kids August 10-12
- Apparatus participated in several 9/11 memorial services in the community
- Apparatus display for fire safety day at Home Depot October 1
- Fire safety open house and annual Fall Festival on October 8
- Apparatus participated in Halloween parades in Old Lee Hills and Mosby Woods neighborhoods October 31
- Santa delivery for the Moose Lodge and Festival of Lights on December 3





Office of Emergency Management

Our office of emergency management maintains our emergency operations and hazard mitigation plans, manages our emergency operations center (EOC), provides operational situation reports, leads recovery operations post disaster, and provides disaster preparedness public education to our citizens and employees. The office is staffed with one emergency management specialist/coordinator and one grant funded emergency planner.

EOC Activations

- Winter storm-partial & virtual activation January 23-26, 2016
- July 4 festivities-partial activation July 4, 2016
- Fall festival-partial activation October 8, 2016

Emergency Declarations

- Winter storm January 23-26, 2016

Exercises

- NOVA Regional Civil Disturbance June 30, 2016
- George Mason University Coordinated Attack August 11, 2016
- City EOC Briefing October 14, 2016
- Web EOC Various-1 exercise/5 drills

Training/Public Outreach

- Staff preparedness training-brown bag lunches 9-sessions
- Senior center preparedness training 2-sessions
- Recovery operations 2-session
- CERT 2-sessions
- City Scene 4-articles

Planning

- Revised continuity of operations plan
- Revised NOVA hazard mitigation plan
- NCR family assistance center operations template



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Gone but Not Forgotten

Our most important resource to providing quality emergency services to our community is our dedicated and trained personnel. Over the course of the year, we wished a warm farewell to many of our dedicated public servants and welcomed aboard or promoted many energetic and quality personnel, eager to serve our community and department into the future.

Retirements

Master Technician Scott Miller	June 24, 1986 to July 1, 2016
Lieutenant David Whitacre	September 24, 1985 to December 1, 2016
Battalion Chief Mark Ciarrocca	January 27, 1988 to January 1, 2017

Resignations

Fire-medical Andrew Kelly	June 8, 2015 to January 29, 2016
Fire-medical Brian Grimes	June 8, 2015 to June 20, 2016
Fire-medical Alex Paris	August 15, 2011 to June 6, 2016
Building Inspector Roger Lozinyak	September 8, 2014 to July 1, 2016
Fire-medical Aaron Horton	August 18, 2014 to July 23, 2016
Fire medical Max Lugo	May 23, 2016 to October 31, 2016

Welcome to Our Team

New Hires

Fire Chief John O'Neal	January 25, 2016
Fire-medical Christopher Myer	May 23, 2016
Fire-medical Sidney Pollock	May 23, 2016
Fire-medical Jeffrey Wallace	July 11, 2016
Fire-medical Donovan McLaughlin	September 12, 2016
Building Inspector James Randolph	September 19, 2016

Promotions

Fire-medical Jon Bullock to Lieutenant	January 4, 2016
Master Fire-medical Kurt Craven to Master Tech	May 23, 2016
Firefighter Chris Cubbage to Master Firefighter	November 21, 2016
Fire-medical Tim Stefanson to Master Fire-medical	November 21, 2016



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Captain Page Whitacre to Battalion Chief December 5, 2016

Fire-medical Joseph Charley to Master Fire-medical December 5, 2016

Congrats to Our 2017 Fairfax Volunteer Fire Department Board of Directors

Bryan Sullivan	President
Dave Bryson	Chief
Thomas Olander	Vice-President
Mark Payne	Treasurer
Alan Rizek	Assistant Treasurer
Russ Stewart	Recording Secretary
Carleton Penn	Corresponding Secretary
Jeff Everly	At-Large member
Michael Sutton	At-Large member
Kyle Witte	At-Large member
Jerry Liebes	At-Large member
Christian Lillo	At-Large member
Robert Thoensen	At-Large member

A special thank you to the outgoing 2016 Board of Directors for your service

Daniel Colcher	Vice-President
David Schottke	At-Large member
Laura Katzif	At-Large member



Fairfax Volunteer Fire Department

The volunteer department continued to contribute to the primary goals of the organization in 2016. In addition to supporting public outreach programs such as the Red Cross fire detector program, fall festival, 4th of July, and other related events, the volunteer department supported the public with over 2,500 hours of operational fire service hours.

Volunteer Service Hours

Type of Hours	Total
Administrative Hours	3043.4
Volunteer Minimum Staffing Hours	1397.5
Volunteer Supplemental Staffing Hours	1161.5
Volunteer Office Admin Hours	88
Total Volunteer Hours 2016	5690.4

